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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,174	10/27/2003	Hong Soon Nam	5895P043	7122
8791 7590 09/19/2007 BLAKELY SOKOLOFF TAYLOR & ZAFMAN				
1279 OAKMEAD PARKWAY			TRAN, PHUC H	
SUNNYVALE	, CA 94085-4040		ART UNIT	PAPER NUMBER
			2616	
			-	
			MAIL DATE	DELIVERY MODE
			09/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
Office Action Occurrence	10/695,174	NAM ET AL.	
Office Action Summary	Examiner	Art Unit	
	PHUC H. TRAN	2616	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wi	th the correspondence address	\$
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a rewill apply and will expire SIX (6) MON a, cause the application to become AB	CATION. pply be timely filed THS from the mailing date of this commun ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 05 Ju	uly 2007.		
·— · · <u>——</u>	action is non-final.	•	
3) Since this application is in condition for allowa	nce except for formal matt	ers, prosecution as to the mer	its is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdra			•
5)⊠ Claim(s) <u>8-16</u> is/are allowed.			
6)⊠ Claim(s) <u>1-3 and 5</u> is/are rejected.			
7)⊠ Claim(s) <u>4,6 and 7</u> is/are objected to.			
8) Claim(s) are subject to restriction and/c	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	<u></u>	by the Examiner.	•
Applicant may not request that any objection to the	•		
Replacement drawing sheet(s) including the correc	tion is required if the drawing	(s) is objected to. See 37 CFR 1.	121(d).
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached	Office Action or form PTO-1	52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		,	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	ts have been received in A	pplication No	
3. Copies of the certified copies of the prior	rity documents have been	received in this National Stag	je
application from the International Burea	u (PCT Rule 17.2(a)).	•	
* See the attached detailed Office action for a list	of the certified copies not	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		s)/Mail Date nformal Patent Application	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Bruckman (Pub. No. 2002/0118700).
- With respect to claims 1-3, Bruckman teaches a resource allocation method for providing load balancing and fairness for a dual ring, the dual ring being shared by a plurality of nodes connected to local networks (e.g. the network in fig. 1 with dual rings and nodes share the network), comprising the steps of: determining whether a bandwidth allocation request message is received from one of other nodes (e.g. step 34 in Fig. 3); determining whether one or more of two rings of the dual ring fulfill a request of the bandwidth allocation request message on the basis of available bandwidths of the two rings and calculating weighted costs, if the bandwidth allocation request message is received (e.g. step 36 in fig. 3 and Fig. 6); allocating a path to one of the two rings having a lower weighted cost, if one or more of two rings fulfill the request of the bandwidth allocation request message (e.g. step 70 Fig. 6); providing a resource allocation information notification message to other nodes (e.g. step 40 in Fig. 3); and ending a process without allocation of a path, if one or more of two rings cannot fulfill the request of the bandwidth allocation request message (step 38 in Fig. 3).

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- With respect to claim 5, Bruckman teaches wherein the step of calculating weighted costs is performed in such a way that if the two rings cannot fulfill the request of the bandwidth allocation request message, the weighted costs are set to an infinite value, or values excessively larger than weighted costs for the case where the request of the bandwidth allocation request message can be fulfilled (e.g. Fig. 6 shows steps of costs for node with in the ring).

Allowable Subject Matter

- 3. Claims 4, and 6-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claims 8-16 are allowed.

The following is an examiner's statement of reasons for allowance: claims are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly discloses a resource allocation method for providing load balancing and fairness for a dual ring, the dual ring being shared by a plurality of nodes connected to local networks, comprising the steps of: setting a current state to a previous state; determining whether a downstream node is congested; setting an allowed rate using equation allow_rate =my_rate+ (C-rev_rate-my_rate)/N (where allowrate is an allowed rate of a base node, C is a rate of a link, rev_rate is a reserved rate, myrate is an own rate of the base node, and N is a number of nodes) and setting the current state to a null state, if the downstream node is not congested; determining whether an own rate of the base node is greater than an advertised rate of the downstream node, if the downstream node is congested; setting the allowed rate using equation

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allow_rate=min[my_rate+(C-rev_rate-my_rate)/N, advertised_rate] (where advertised_rate is an advertised rate) and setting the current state to a congested state, if the own rate of the base node is not greater than the advertised rate of the downstream node; determining whether the previous state is a congested state and whether a previous round trip time is not zero, if the own rate of the base node is greater than the advertised rate of the downstream node; setting the previous round trip time to the previous round trip time minus one, if the previous state is the congested state and the previous round trip time is not zero, and setting a current round trip time to the previous round trip time is not the congested state and the previous round trip time is zero; setting the allowed rate using equation allow_rate=max[my_rate-{RTT(c-rev_rate)}/2N,my_rate~2, advertised_rate]} and setting the current state to a congested state.; and providing a resource allocation information notification message to other nodes.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mor et al. (Pub. No. 2002/0018481) discloses resource reservation in a ring network.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUC H. TRAN whose telephone number is (571) 272-3172. The examiner can normally be reached on M-F (8-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHI PHAM can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuc Tran Assistant Examiner Art Unit 2616

P.t 9/15/07

CHI PHAM
ELIPERVISORY PATENT EXAMINER

9/17